

What is claimed is:

1. An electronic device for wireless communications removably fitted to an electronic apparatus so as to provide said electronic apparatus with wireless communication functions, said electronic device comprising:

5 a projecting section fitted to said electronic apparatus with an end thereof projecting from said electronic apparatus; at least an antenna arranged at said projecting section and electronically connected to a wireless circuit; and reflection means for shifting at least part of the radiating  
10 directions of a radio wave radiated from said antenna.

2. An electronic device as claimed in claim 1, wherein said reflection means can rotate around a pivot.

3. An electronic device as claimed in claim 2, wherein said reflection means can be made to change positions thereof from a first position capable of reflecting the radio wave radiated from said antenna to a second position incapable of reflecting the  
5 radio wave.

4. An electronic device as claimed in claim 2, wherein each of bearings supporting said pivot is provided with an oblong hole adapted to rotatably support the corresponding pivot at a plurality of vertically arranged positions.

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5. An electronic device as claimed in claim 1, wherein said reflection means is integral with a housing covering a mounting base board.

6. An electronic device as claimed in claim 1, wherein said reflection means can swing in any direction around a pivot formed as a result of engagement of a spherical projection and a spherical recess.

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7. An electronic device as claimed in claim 1, wherein the reflection surface of said reflection means is curved so as to be convex or concave.

8. An electronic device as claimed in claim 1, wherein the reflection surface of said reflection means is provided with a large number of projections.

9. An electronic device as claimed in claim 1, wherein said antenna is arranged on the mounting base board of said projecting section and located at a position higher than a circuit mounting region where said wireless circuit is mounted.

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10. An electronic device as claimed in claim 5, wherein said reflection means is removably fitted to said housing.

11. A reflector device for use in a wireless communication card, comprising:

a base portion which has an attachment portion attached to

said wireless communication card; and

- 5           a reflector which is rotatably attached to said base portion through a movable supporting portion and which reflects a radio wave.

12.   A reflector device as claimed in claim 11, wherein said reflector is supported by said movable supporting portion with the reflector being freely capable of rising and falling.

13.   A reflector device as claimed in claim 11, wherein a reflection surface of said reflector is formed by a planar surface.

14.   A reflector device as claimed in claim 11, wherein a reflection surface of said reflector is formed by a curved surface.

15.   A reflector device as claimed in claim 13, wherein at least one projection is formed in a surface of said reflection surface of said reflector device.

16.   An electronic device for wireless communications contained in an electronic apparatus so as to provide said electronic apparatus with wireless communication functions, said electronic device comprising:

- 5           at least an antenna electronically connected to a wireless circuit; and

          reflection means for shifting at least part of the radiating

directions of a radio wave radiated from said antenna.

17. An electronic device as claimed in claim 16, wherein said reflection means can rotate around a pivot.

18. An electronic device as claimed in claim 17, wherein said reflection means can be made to change positions thereof from a first position capable of reflecting the radio wave radiated from said antenna to a second position incapable of reflecting the  
5 radio wave.

19. An electronic device as claimed in claim 16, wherein said reflection means can be drawn from said electronic apparatus with a slid structure thereof.

20. An electronic device as claimed in claim 16, wherein said reflection means is integral with a housing of said electronic apparatus.

21. An electronic device as claimed in claim 16, wherein  
said reflection means can swing in any direction around a pivot formed as a result of engagement of a spherical projection and a spherical recess.  
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22. An electronic device as claimed in claim 16, wherein  
the reflection surface of said reflection means is curved so as to be convex or concave.

23. An electronic device as claimed in claim 16, wherein the reflection surface of said reflection means is provided with a large number of projections.

24. An electronic device as claimed in claim 16, wherein said reflection means is removably fitted to a housing of said electronic apparatus.

25. A reflector device for use in an electronic apparatus having wireless communication functions, said reflector device comprising:

a base portion which has an attachment portion attached to  
5 said electronic apparatus; and

a reflector which is rotatably attached to said base portion through a movable supporting portion and which reflects a radio wave.

26. A reflector device as claimed in claim 25, wherein said reflector is supported by said movable supporting portion with the reflector being freely capable of rising and falling.

27. A reflector device as claimed in claim 25, wherein a reflection surface of said reflector is formed by a planar surface.

28. A reflector device as claimed in claim 25, wherein a reflection surface of said reflector is formed by a curved surface.

29. A reflector device as claimed in claim 25, wherein at least one projection is formed in a surface of said reflection surface of said reflector device.

30. A reflector device for use in a combination of an electronic apparatus and a wireless communication card removably fitted to said electronic apparatus so as to provide said electronic apparatus with wireless communication functions, said wireless  
5 communication card including:

a projecting section fitted to said electronic apparatus with an end thereof projecting from said electronic apparatus;

at least an antenna arranged at said projecting section and electronically connected to a wireless circuit;

10 said reflector device comprising: a slid structure thereof by which the reflector device can be made to change positions thereof from a first position capable of reflecting the radio wave radiated from said antenna to a second position incapable of reflecting the radio wave.